

ABSTRACT OF THE INVENTION

The present invention is directed to a gain equalizer having a preferable equalization characteristic and a structure that can be easily fabricated. The gain equalizer 5 flattens a spectrum of light in a predetermined wavelength range inputted through an input terminal and outputs the light from an output terminal, and comprises a coarse-tunable equalizing section and a fine-tunable equalizing section connected in series. The coarse-tunable equalizing section 10 coarsely flattens the spectrum of the light in the predetermined wavelength range, and includes a plurality of filters each having a large loss and a small reflectance as compared with the fine-tunable equalizing section. The fine-tunable equalizing section flattens the spectrum of 15 the light in a wavelength range where the coarse-tunable equalizing section can not flatten at a predetermined value or less among the predetermined wavelength range.